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SUBJECT: CAMERA INFORMATION FOR MISSION 1029-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A.

MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS(MM)	610.410	610.420	FWD 55.00	FWD 55.00
			AFT 54.95	AFT 54.95
FILTER (WRATTEN NUMBER)	25	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN.)				
EXPOSURE (SEC.)	.275	.175	1/100	1/100
FILM	3404	3404	3404	3404

25X1

TOP SECRET

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

RESOLUTION (L/MM)		190	203	NA NA

B.

S/I UNITS		STELLAR	INDEX
FOCAL LENGTHS (MM)	PART 1	83.8978	38.3152
	PART 2	84.1459	38.3161
FILTER (WRATTEN NR)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC.)		2.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		71
	PART 2		72
UNIT NUMBER	PART 1	D79/94/91	
	PART 2	D76/70/94	

3. LENS DISTORTION (PIN CUSHION) MM

A.

MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.000	.001	.001	.000	.000	.000	.005
AFT UNIT	.000	.000	.000	.000	.000	.000	.002

B.

HORIZON CAMERAS (MM)		FWD		AFT	
		PORT	STAR	PORT	STAR
(RADIAL)	10 DEGREES	.020	.020	.020	.030
	20 DEGREES	.090	.080	.080	.050
(TANGENTIAL)	MAX VECTOR	.025	.030	.020	.025

4. CAMERA ANGLES DEG. MIN.

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

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A.	ANGLE BETWEEN PAN CAMERAS		29	36.74
B.	DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	35
		FWD PORT	15	12
		AFT STAR	15	52
		AFT PORT	15	23
C.	ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	89	55.7
		PART 2	89	54.5

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLES RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
8	.3169	.0287	3	.1312	.0119	1D1 THRU 27D2
8	.3169	.0287	2	.1449	.0131	31D1 THRU 81D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME)				PROGRAM ON TIME UP RAMP	PROGRAM DURATION
	DAY	HR	MIN	SEC	SEC	SEC
1D1	02	23	01	07	1309	42
3D1	03	01	59	21	1120	113
3D2	03	02	02	32	1311	55
5D1	03	05	04	25	1358	55
5D2	03	05	07	35	1548	90

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

6D1	03	06	33	40	1276	64
6D2	03	06	37	34	1511	68
6D3	03	06	42	25	1802	109
7D1	03	08	04	11	1273	56
7D2	03	08	06	54	1436	208
8D1	03	09	32	30	1134	211
9AE	03	10	45	44	91	48
9D1	03	11	05	12	1259	152
14D1	03	18	43	23	1569	41
14D2	03	18	46	11	1737	40
14D3	03	18	59	49	2555	130
16D1	03	21	46	11	1667	39
18D1	04	00	38	51	1156	118
19D1	04	02	09	48	1178	108
21D1	04	05	10	46	1164	306
22D1	04	06	44	17	1340	76
22D2	04	06	48	09	1572	49
22D3	04	06	50	04	1687	199
24D1	04	09	42	37	1169	315
26AE	04	12	21	44	0	28
26D1	04	12	55	36	1879	121
27AE	04	13	52	22	0	27
27D1	04	14	24	57	1806	108
31D1	04	20	25	32	1700	47
34D1	05	00	49	05	1213	72

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

36D1	05	03	50	17	1217	107
36D2	05	03	55	34	1534	63
36D3	05	04	13	42	2622	115
37D1	05	05	27	13	1598	306
38D1	05	06	54	05	1376	75
38D2	05	06	57	40	1592	117
38D3	05	07	01	46	1837	174
38D4	05	07	07	09	2160	54
38D5	05	07	08	38	2250	40
39D1	05	08	24	40	1378	195
40D1	05	09	53	35	1279	202
47D1	05	20	34	13	1680	39
52D1	06	04	01	34	1357	101
52D2	06	04	05	20	1583	94
53D1	06	05	32	25	1376	52
53D2	06	05	36	41	1632	382
54D1	06	07	02	27	1344	182
55D1	06	08	29	44	1149	48
55D2	06	08	31	15	1239	208
55D3	06	08	37	21	1606	124
63D1	06	20	44	00	1747	38
68D1	07	04	12	28	1499	261
69D1	07	05	45	30	1651	64
69D2	07	05	48	20	1821	229
70D1	07	07	08	45	1215	131

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

Approved For Release 2008/03/26 : CIA-RDP78B04558A001200020083-6

70D2	07	07	11	30	1380	245
71D1	07	08	40	16	1275	174
72D1	07	10	12	19	1368	102
72D2	07	10	19	53	1821	60
72D3	07	10	21	47	1935	45
74D1	07	13	22	36	1923	107
78D1	07	19	23	02	1826	47
79D1	07	20	51	34	1706	47
81D1	07	23	46	39	1333	57

NOTE: DATA IS THE SAME FOR BOTH UNITS EXCEPT ON PASS 71D1 ON WHICH THE SLAVE (AFT) UNIT ONLY WAS OPERATED IN A MONO-MODE.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	108718.380	38798.5329	----
16	148339.984	78420.1381	.001
25	195742.044	39422.1986	.001
31	229905.700	73585.8544	.000
40	277243.844	34523.9973	.001
47	316845.837	74125.9887	.002
56	364227.873	35108.0218	.003
63	403864.863	74745.0087	.003
72	451186.031	35666.1721	.005
79	490778.884	75259.0205	.005

NOTE: DIFFERENCE VALUES ARE MINUS FOR PASSES 16 AND 25 AND PLUS FOR PASSES 40 THRU 79. GP-1

T O P S E C R E T --END OF MESSAGE--

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